



PIONEERS Co-Op

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Overview of **GEOMETRY** (Grades 9-12)

Tutor: Mrs. April Butterfield
517-612-9632
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Prerequisite: Student must have passed Algebra 1 with at least a C grade.

Textbook: Both available to rent through PIONEERS Co-op
Jacob's Geometry (2nd edition)
Solutions Manual

Required Supplies:

- **REAL** Calculator with trigonometric functions — cell phone **cannot** be used
- Compass
- Protractor

Concepts to be covered:

- Algebra review
- Circles
- Deductive Reasoning
- Concurrence Theorems
- Points
- Regular Polygons and the Circle
- Lines
- Geometric Solids
- Planes
- Rays
- Angles
- Congruent Triangles
- Inequalities
- Parallel Lines
- Quadrilaterals
- Area
- Similarity
- Right Triangle
- Coordinate Geometry

Student Evaluation:	% of semester grade
Homework	40%
Test Scores	40%
Midterm/Final Exam	20%

Grading Scale	
90-100%	=A
80-89%	=B
70-79%	=C
60-69%	=D
Less than 60%	=E

This is a class in Euclidean geometry with an emphasis on deductive reasoning and forming logical arguments. Students will learn to construct formal proofs using definitions, algebraic properties, and theorems.

There will be daily homework in this class. Students will be expected to come to class with assignments completed and with questions on any troublesome problems.